



HQ AFCEA ENERGY TEAM

Save Energy Save Money
Save The Environment

Per EPACT 2005 the FY06 Goal is 2% vs. FY03 baseline.

Volume 3

Saving Energy Is Our Goal

August
2006

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The information presented in this newsletter is intended as advisory and educational material only.

Buy wisely. Section 161 of the Energy Policy Act of 1992 (EPAct) encourages energy-efficient federal procurement. Executive Order 12902 and FAR section 23.704 direct agencies to purchase products in the upper 25% of energy efficiency.
- FEMP

World Energy Engineering Congress (WEEC)

The WEEC celebrates its 29th year as the most important energy event of national scope for end users and energy professional in all areas of the energy field. It is the one truly comprehensive forum where you can fully assess the "big picture" – and see exactly how the economic and market forces, new technologies, regulatory developments and industry trends all merge to shape your critical decisions on your organization's energy and economic future - [Energy Congress](#)

October is Energy Awareness Month!

MAJCOM and base energy managers should receive Energy Awareness Month materials in late September from DOE/FEMP. Please distribute these materials throughout your organization and plan some activities in October to promote Energy Awareness!

Awards

DUERS Update: The majority of the 3rd Quarter FY06 DUERS data has been submitted by the MAJCOM's to AFCEA. AFCEA has reviewed the available Apr – Jun 2006 (3rd Quarter) data and has provided comments back to the MAJCOM DUERS POC's. The 4th Quarter FY06 (Jul – Sept 2006) DUERS submittals will be due in the October 2006 timeframe, so it can be included in this year's Annual Energy Report. Thank you for your support of the energy reporting (DUERS) process!

2006 DOE Energy Awards: The Air Force has submitted all base/MAJCOM energy award nominations for consideration to DOE. Below is the final listing of all the Air Force nominations, including one as a Presidential Award (Hill/AFMC) and two

Reducing Energy Appreciation Program (REAP)

As a way to say thanks for an aggressive base energy reduction program, REAP rewards major installations for their ongoing efforts to reduce energy consumption. Purchased renewable energy is not counted as part of this program. The REAP rules are simple, we use the DUERS input for each base and compare their last year's MBTU/SF to the current year's MBTU/SF and determine the bases with the highest percent reduction. The top two major CONUS and one overseas base (including Hawaii and Alaska) are selected as the winners. We used the FY04 and FY05 DUERS data (incomplete data disqualifies base for this award). For winning bases, we will fund the energy manager's attendance at the Annual AEE/DOD Energy Conference. This year's Energy 2006 Conference is being held in Washington DC, 12-15 Sep. We would like the energy manager to provide a short (10 minutes max) briefing on their efforts to reduce energy at their installation during the Air Force meeting on 12 Sep.

The CONUS bases selected this year are Andrews AFB (AMC) and Seymour Johnson AFB (ACC). The overseas selection is the Ramstein AB (USAFE). They reduced their energy consumption by 14.4 %, 17.7 %, and 4.2 %, respectively, from the previous year.

We appreciate all efforts to reduce our energy consumption and look forward to a great FY06. – **AFCESA Energy Team**

nominations for the Federal Energy Saver Showcase Awards. The AFCESA Energy Team wants to convey a big "Thanks!" for your assistance in submitting all your Base's nominations this year!

2006 FEMP Energy & Water Management Awards; 2006 FEMP Presidential Awards for Leadership in Federal Energy Management:

ACC/Dyess/Energy Program Management (Organization)
ACC/Ellsworth/Energy Program Management (Individual)
ACC/Ellsworth/Energy Program Management (Small Group)
ACC/Mountain Home/Water Conservation (Small Group)
AFMC/Hill/Renewable Energy (Small Group)
AFMC/Hill/Presidential Award (Team)
AFRC/March ARB/Energy Program Management (Small Group)
AMC/Andrews/Energy Program Management (Small Group)
PACAF/Misawa/Energy Program Management (Organization)
USAFE/Ramstein/Energy Program Management (Organization)

2006 FEMP Federal Energy Saver Showcase Awards
ACC/Dyess
AFMC/Edwards

We have been notified that FEMP has selected four Air Force nominations as winners. The winners listed below will be recognized at FEMP's Energy Awards luncheon ceremony 5 October in Washington, DC.

2006 FEMP Award Winners:

Andrews AFB
Edward AFB (Showcase Award)
Ellsworth AFB
Hill AFB
– **Kevin Wahlstrom**

ECIP

ECIP FY08/09 call letter has been sent to the commands with a due date for project submissions to AFCESA of 16 Jun.

Let's recap the current status of projects:

- a. FY06 construction awards, 6 out of 10 for \$6482K (deadline 30 Sep)
- b. FY07 design complete, 12 out of 15 (deadline 30 Sep)
- c. FY08 AFCESA received 52 projects from the commands with a programmed amount over \$62M of which \$32M were renewable projects. Formal AF submission of the FY08 ECIP selected projects will be sent to OSD by 30 Sep. Thanks for the great effort by all!

ESPC Support Contracts

AFCESA has awarded a support contract to EarthTech which provides for a comprehensive analysis of the financial and the construction costs proposed in eight (8) ESPC Phase II proposals to assist AF bases in the determination of price reasonableness and to ensure optimal value to the Air Force.

The scope of this work provides for the contractor to provide the expertise necessary to perform a thorough and comprehensive review of the energy conservation projects (ECP's)/energy conservation measures (ECM's) proposed by the ESCO. In addition, the contractor will provide assistance to contracting personnel in developing methods and approaches for negotiations, and in preparing the Pre-Negotiation Memorandum, Price Negotiation Memorandum and Business Clearance documentation at selected Air Force bases. – Linda Sisk

Tips to Save Energy Today - DoE

- Set your thermostat comfortably low in the winter and comfortably high in the summer. Install a programmable thermostat that is compatible with your heating and cooling system.
- Use compact fluorescent light bulbs.
- Lower the thermostat on your hot water heater to 120° F.
- Wash only full loads of dishes and clothes.
- Drive sensibly. Aggressive driving (speeding, rapid acceleration and braking) wastes gasoline.

Note: 3 of the 6 ECIP awards came through our SR&M function at AFCESA, beating the required execution deadlines and very close to the original PA. This is an excellent way for a base to get the work they want done without all the hassle.

FY06 Annual Energy Report to Congress: DOE has established some guidelines for this years report. While most of the report will remain the same, we expect to have a new Energy scorecard to fill in that covers the new requirements from Epact 2005. Timeframe for submissions will be in October. – Tim Adams

DOD FY05 published annual report to Congress

[Energy Management Report](#)

DOE FY06 guidelines for exemptions and metering

[Energy Policy Act 2005 \(EPACT\)](#)

Steam Traps

A critical component to steam system efficiency is the steam trap. Steam traps serve to drain condensate and remove non-condensable gas from distribution piping and heat transfer vessels and coils. Several different type traps are available. Proper design requires matching the trap and capacity to the proper application. Excellent design guidance and training is available from multiple trap manufacturers. Proper design and maintenance of traps are essential to achieve intended system performance, maximize and maintain system efficiency.

Poor design typically results in premature trap failure, energy waste, and failure of the system to achieve the intended system capacity. In addition, improper trap design can cause water hammer resulting in damage or failure of system components, such as heat exchanger tubes or heating coils.

Steam leaks from failed traps add up to expensive energy waste. Based on FY05 AF average natural gas cost, a single failed trap with a 1/8 inch orifice on a 150psi line active year round will waste over \$7,200 per year. A similar failed trap on a 15psi system (inside a building) would waste over \$1,300 per year. Simple payback for detecting and replacing such failed traps is extremely short.

AFCESA Energy We are here for you!

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Contact the editor:

Let us know if you have news you would like published in our next newsletter.

AFCESAEnergy.Helpdesk@Tyndall.af.mil

Send an email with "remove" in the subject line to be removed from future mailings.

Proper maintenance of steam traps is critical to minimizing system cost, energy waste and maximizing efficiency. Typical trap life expectancy is only 3-5 years. Annual or semi-annual steam trap surveys will identify leaking or failed traps. Prompt repair or replacement of leaking or failed traps is highly cost effective. – Gerald Doddington

Steam Traps helpful links:

[Inspection & Repair](#)

[Source Book](#)

[Construction Guide](#)

[Energy Concepts](#)

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HELPFUL LINKS

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[DOE FEMP](#)

[DOE Energy Savers](#)

[Association of Energy Engineers \(AEE\)](#)

[AFIT Information](#)

[Energy Tips](#)